

IN THE CLAIMS:

*Please amend the claims as follows:*

1. *(currently amended)* ~~Method~~ A method for High-Speed Downlink Packet Access signaling for Time Division Duplex mode of a wireless communication system, comprising the following steps:  
a base station sending indication information to a mobile terminal device (UE);  
the mobile terminal device (UE) identified by the said indication information receiving signaling information;  
said mobile terminal device, based on the said signaling information, decoding packet data information;  
wherein a High-Speed Indicator designates a specific mobile terminal device accessible in a downlink channel,  
characterized by the steps of :
  - including said High-Speed Indicator into the slot structure of a Paging Indicator Channel (PICH), said High-Speed Indicator comprising a plurality of identification bits, each identification bit being assigned.
2. *(currently amended)* ~~Method~~ A method according to claim 1, wherein said plurality of identification bits are four identification bits arranged in two pairs each of two bits on either side of and adjacent to a midamble area of said Paging Indicator Channel (PICH).
3. *(currently amended)* ~~Method~~ A method according to ~~any one of the preceding claims~~ claim 1, comprising the following further steps step:
  - dividing a plurality of mobile terminal devices upon a plurality of groups.
4. *(currently amended)* ~~Method~~ A method according to claim 3, comprising the following further steps step:
  - assigning certain periods of time to each group,wherein each mobile terminal device of a group receives data transmitted within said periods of time assigned to said respective group via said Paging Indicator Channel (PICH).

5. *(currently amended)* ~~Method~~ A method according to claim 3 ~~or claim 4~~, comprising the following further steps step:
  - assigning a High-Speed Indicator to each mobile terminal device of a group.
6. *(currently amended)* ~~Method~~ A method according to ~~any one of the claims 3 to 5~~ claim 4, wherein said periods of time of a group are assigned according to the data traffic of the group.
7. *(currently amended)* ~~Method~~ A method according to ~~any one of the preceding claims~~ claim 1, comprising the following further steps step:
  - receiving information on said Paging Indicator Channel (PICH) by a mobile terminal device.
8. *(currently amended)* ~~Method~~ A method according to ~~any one of the preceding claims~~ claim 1, comprising the following further steps step:
  - receiving signaling information on a High-Speed Shared Control Channel (HS-SCCH) by a mobile terminal device.
9. *(currently amended)* ~~Method~~ A method according to claim 7, comprising the following further steps step:
  - receiving and decoding data packets on a Downlink Shared Channel (DSCH) by a mobile terminal device,wherein the receiving and decoding step employs said signaling information received on said High-Speed Shared Control Channel (HS-SCCH).
10. *(currently amended)* ~~Method~~ A method according ~~any one of the preceding claims~~ to claim 1, comprising the following further steps step:
  - transmitting transmission related information.
11. *(currently amended)* ~~Method~~ A method according ~~any one of the preceding claims~~ to claim 1, wherein said identification bits ~~codes~~ code a binary address of a mobile terminal device.

12. *(currently amended)* ~~Method~~ A method according to ~~claim 1 to 11~~, wherein said identification bits ~~codes~~ code a logical address of a mobile terminal device.
13. *(currently amended)* ~~Method~~ A method according ~~any one of claims 3 to 6~~ to claim 3, wherein said dividing a plurality of mobile terminal devices upon a plurality of groups is based on the data traffic.
14. *(currently amended)* ~~Method~~ A method according ~~any one of claims 3 to 6~~ to claim 3, wherein said dividing a plurality of mobile terminal devices upon a plurality of groups is based on an N channel Hybrid Automatic Repeat Request scheme.
15. *(currently amended)* ~~Computer~~ A computer program for executing a method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system, comprising program code means for carrying out each of the steps of ~~any one of the claims 1 to 14~~ claim 1 when said program is run on a computer, a network device, a mobile device, or an application specific integrated circuit.
16. *(currently amended)* ~~Computer~~ A computer program product comprising program code means stored on a computer readable medium for carrying out each of the steps of the method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system of ~~any one of claims 1 to 14~~ claim 1 when said program product is run on a computer, a network device, a mobile device, or an application specific integrated circuit.
17. *(currently amended)* ~~Mobile~~ A mobile terminal device for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system, comprising means adapted to perform each of the steps of the method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system according to ~~any one of the claims 1 to 14~~ claim 1.
18. *(currently amended)* ~~Wireless~~ A wireless communication system for High-Speed Downlink Packet Access for Time Division Duplex mode, comprising means adapted to perform a method for High-Speed Downlink Packet Access for Time Division Duplex

mode of a wireless communication system according to ~~any one of the claims 1 to 14~~  
claim 1.